

[19]中华人民共和国国家知识产权局

[51]Int. Cl⁷

B65D 6/16

[12] 实用新型专利说明书

[21] ZL 专利号 00222736.3

[45]授权公告日 2001 年 1 月 3 日

[11]授权公告号 CN 2412846Y

[22]申请日 2000.4.6 [24]颁证日 2000.12.1
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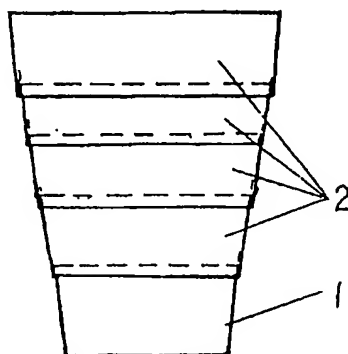
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[54]实用新型名称 便携式折叠容器

[57]摘要

本实用新型涉及便携式折叠容器,包括容器口和容器底 1,其特征在于:容器壳体由至少一节截面为梯形的圆筒 2 和截面为梯形的容器底 1 构成,其中圆筒或截面容器底的上口直径略大于其相邻圆筒的下口直径;壳体轴向拉伸时筒体间或筒体与容器底之间为上下相互胀接。本实用新型可以根据需要制成口杯或盥洗容器,如面盆或水桶等。材料可以选用工程塑料、铝合金等。具有的优点是:结构简单,折叠、展开和使用方便,携带时占用空间小。



ISSN 1008-4274

权 利 要 求 书

1. 一种便携式折叠容器，包括容器口和容器底1， 其特征在于：容器壳体由至少一节截面为梯形的圆筒(2)和截面为梯形的容器底(1)构成，其中圆筒或截面容器底的上口直径略大于其相邻圆筒的下口直径；壳体轴向拉伸时筒体间或筒体与容器底之间为上下相互胀接。

2. 根据权利要求1所述的便携式折叠容器，其特征在于：在容器底(1)或圆筒(2)的上口边与其相邻的圆筒(2)的上口边之间连接有柔性防水耐温膜(3)，当壳体轴向拉伸时，柔性防水耐温膜(3)展开，构成隔水内层。

3. 根据权利要求1所述的便携式折叠容器，其特征在于：容器底(1)的底部固定在一直径大于最大筒体直径的盒体内，容器收缩折叠进盒体内后盖上盒盖密封。

说明书

便携式折叠容器

本实用新型涉及一种便携式折叠容器。

人们在出差或旅行中总希望有便于携带的容器以便随时使用。现有技术中的便携式容器较多，如便携式口杯等，但大多都不能折叠，因而不能缩小占地空间，常常带来携带上的诸多不便。

本实用新型的目的在于提供一种既方便携带和使用，又能够缩小空间折叠存放的便携式折叠容器。

本实用新型的上述目的是通过这样的技术方案实现的，即一种便携式折叠容器，包括容器口和容器底，其特征在于：容器壳体由至少一节截面为梯形的圆筒和截面为梯形的容器底构成，其中圆筒或截面容器底的上口直径略大于其相邻圆筒的下口直径；壳体轴向拉伸时筒体间或筒体与容器底之间为上下相互胀接。

本实用新型的结构可以通过附图进一步说明。

本实用新型有如下附图：

附图1为本实用新型使用时的结构示意图；

附图2为本实用新型折叠时的结构剖面示意图；

附图3为本实用新型实施例的半开启状态剖面示意图。

参见附图：图中便携式折叠容器，包括容器口和容器底1，其特征在于：容器壳体由至少一节截面为梯形的圆筒2和截面为梯形的容器底1构成，其中圆筒或截面容器底的上口直径略大于其相邻圆筒的下口直径；壳体轴向拉伸时筒体间或筒体与容器底之间为上下相互胀接。

本实用新型的一个较佳实施例是：在容器底1或圆筒2的上口边与其相邻的圆筒2的上口边之间连接有柔性防水耐温膜3，当壳体轴向拉伸时，柔性防水耐温膜3展开，构成隔水内层。容器底1的底部固定在一直径大于最大筒体直径的盒体内，容器收缩折叠进盒体内后盖上盒盖密封。

本实用新型可以根据需要制成口杯或盥洗容器，如面盆或水桶等。材料可以选用工程塑料、铝合金等。

本实用新型由于所述结构而具有的优点是：结构简单，折叠、展开和使用方便，携带时占用空间小。

说明书附图

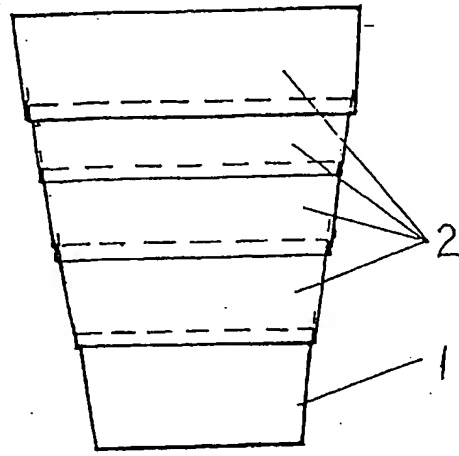


图1

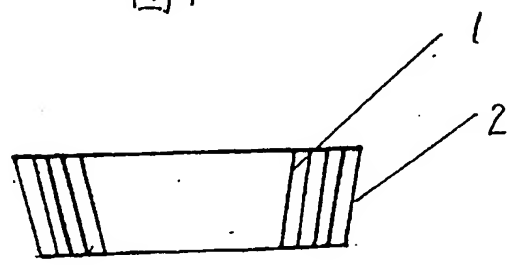


图2

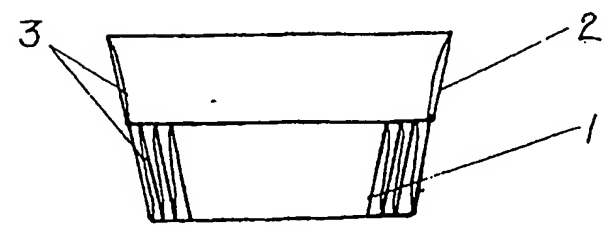


图3

[19] State Intellectual Property Office of the Peoples Republic of China

[51] Int. Cl. ⁷

B 65 D 6/16

[12] Utility Model Application

[21] Application No.: 00222736.3

[45] Date of Publication: January 3, 2001

[11] Publication No.: CN 2412846Y

[22] Application Date: April 6 2000

[24] Issuance Date: December 1 2000

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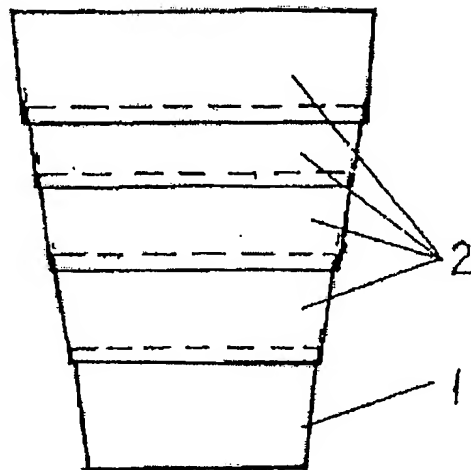
Patent Agent: Liu Xiaohong

1 Page of Claims, 1 page of Description
and 1 page of Drawings

[54] Title of the Invention: **Portable Folding Container**

[57] Abstract:

This utility model relates to a portable folding container comprising an opening and a base (1), characterized in that the container casing comprises at least one round sleeve (2) with a ladder-shaped cross section, and a base (1) with a ladder-shaped cross section, wherein the diameter of the upper opening of the round sleeve (2) or the base (1) is smaller than the diameter of the bottom opening of the adjacent round sleeve (2). When the casing is pulled straight along its axle, the adjacent round sleeves (2), or the round sleeve (2) and the base (1), are fitted together. This utility model can be used as a drinking cup or a washing container, as in the case of a wash basin or water container. Industrial plastic or aluminum alloy may be used as a material for making this utility model. This utility model has the following advantages: possesses a simple structure; is easy to fold, open, and to use; and takes up very little space when carried.



Claims

1. A portable folding container comprising an opening and a base (1), characterized in that

the container casing comprises at least one round sleeve (2) with a ladder-shaped cross section; and a base (1) with a ladder-shaped cross section, wherein

the diameter of the upper opening of the round sleeve (2) or the base (1) is smaller than the diameter of the bottom opening of the adjacent round sleeve (2); and

when the casing is pulled straight along its axle, the adjacent round sleeves (2), or the round sleeve (2) and the base (1), are fitted together.

2. The portable folding container according to Claim 1, characterized in that

a soft waterproof heat-resistant membrane (3) is provided between the edge of the upper opening of the round sleeve (2) or the base (1) and the edge of the upper opening of the adjacent round sleeve (2); and

when the casing is pulled straight along its axle, the soft waterproof heat-resistant membrane (3) is opened to form an internal water insulation layer.

3. The portable folding container according to Claim 1, characterized in that

the bottom of the base (1) is firmly fixed to a box with a diameter that is bigger than the largest round sleeve diameter; and

after the folding container is packed into the box, a box cover is placed over the box to seal the box.

Description

A PORTABLE FOLDING CONTAINER

This utility model relates to a portable folding container.

When people go on trips or holidays, they usually hope to have a portable container which they can use at any time. Currently there are several portable containers, such as portable drinking cups. However, most of these cups cannot be folded, and therefore cannot be reduced in size, resulting in some inconvenience for carrying. An object of this utility model is to provide a portable folding container that is convenient to carry and use, and whose size can be reduced so that the container can be stored.

The objective of this utility model is implemented in the following manner:

A portable folding container comprising an opening and a base, characterized in that the container casing comprises at least one round sleeve with a ladder-shaped cross section, and a base with a ladder-shaped cross section, wherein the diameter of the upper opening of the round sleeve or the base is smaller than the diameter of the bottom opening of the adjacent round sleeve. When the casing is pulled straight along its axle, the adjacent round sleeves, or the round sleeve and the base, are fitted together.

A working example for this utility model is described in greater details below with reference to the attached diagrams.

Fig. 1 is a schematic diagram of the structure of this utility model when it is in use.

Fig. 2 is a schematic diagram of the cross-sectional structure of this utility model when it is folded.

Fig. 3 is a schematic diagram of the cross-sectional structure of the working example of this utility model when it is half opened.

It can be seen from the attached diagrams that the portable folding container comprises an opening and a base (1) and is characterized in that the container casing comprises at least one round sleeve (2) with a ladder-shaped cross section, and a base (1) with a ladder-shaped cross section, wherein the diameter of the upper opening of the round sleeve or the base is smaller than the diameter of the bottom opening of the adjacent round sleeve, and when the casing is pulled straight along its axle, the adjacent round sleeves, or the round sleeve and the base, are fitted together.

A preferred working example of this utility model is described next. A soft waterproof heat-resistant membrane (3) is placed between the edge of the upper opening of the round sleeve (2) or the base (1) and the edge of the upper opening of the adjacent round sleeve (2), and when the casing is pulled straight along its axle, the soft waterproof heat-resistant membrane (3) is opened to form an internal water insulation layer. The bottom of the base (1) is firmly fixed to a box with a diameter that is bigger than the largest round sleeve diameter, and after the folding container is packed into the box, a box cover is placed over the box to seal the box.

Industrial plastic, aluminum alloy, or the like may be used as material for making this utility model. This utility model has the following advantages: possesses a simple structure, is easy to fold, open, and to use, and takes up very little space when carried.

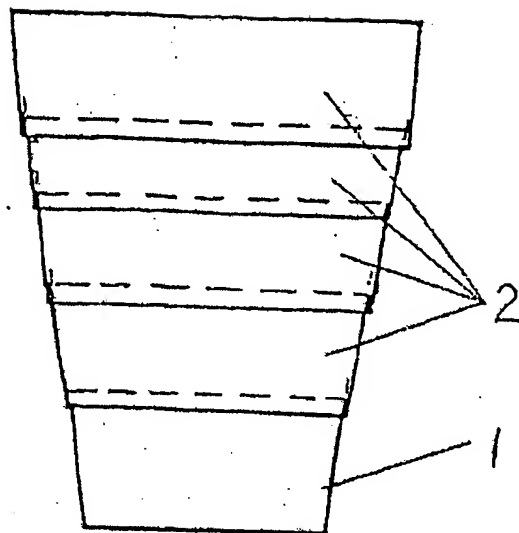


Figure 1

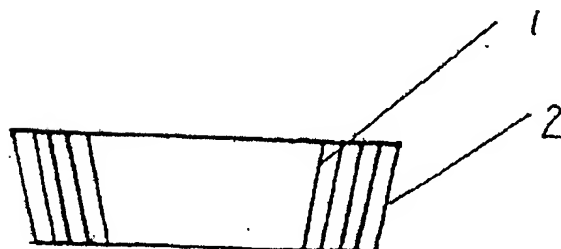


Figure 2

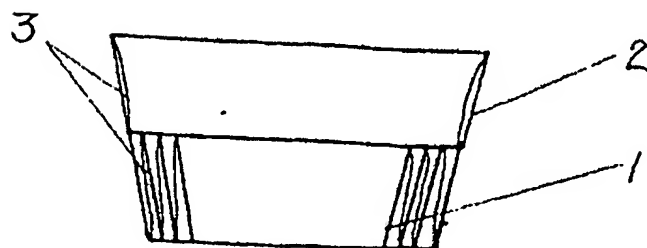


Figure 3